

ABSTRACT

[0031] Methods and systems in accordance with embodiments of the present invention can provide for reduced power consumption in rotatable media data storage devices. A voice coil motor or spindle motor driver configured to operate as a linear driver can be operated in a quasi-switch mode, for example when idle, or linear mode, for example during read/write operations and seeks, thereby achieving power savings along with accurate current control. Alternatively, a voice coil motor or spindle motor driver configured to operate as a switched driver can be operated at a reduced limit cycle, for example when idle, or a higher limit cycle, for example during read/write operations and seeks, thereby achieving power savings.